WHAT IS CLAIMED IS:

- 1. A method of testing an electrical switchgear system, comprising: applying an analog signal to a node in said electrical switchgear system, wherein said node monitors a power line signal and controls a breaker based on said power line signal, and wherein said analog signal simulates said power line signal; and receiving data representing a status of said breaker.
- 2. The method of claim 1, where in said data is received from at least one of said node or said breaker.
- 3. The method of claim 1, wherein said analog signal has a magnitude of less than about 10 volts peak-to-peak.
- 4. The method of claim 1, wherein said analog signal has a magnitude of about 2.5 volts peak-to-peak.
- 5. The method of claim 1, wherein said analog signal has a magnitude of less than or equal to about 10% of a magnitude of said power line signal.
- 6. The method of claim 1, wherein said applying said analog signal is performed while said node monitors said power line signal.
- 7. The method of claim 1, wherein said analog signal simulates a fault condition of said power line signal.
- 8. The method of claim 1, wherein said analog signal simulates a non-fault condition of said power line signal.
 - 9. The method of claim 1, further comprising:

modifying said analog signal based on said status of said breaker; and receiving additional data representing said status of said breaker.

- 10. The method of claim 1,
- wherein said analog signal is a first analog signal, said node is a first node, said breaker is a first breaker, and said power line signal is a first power line signal,
- wherein said method further comprises applying, simultaneously with said applying said first analog signal, a second analog signal to a second node in said electrical switchgear system,
- wherein said second node monitors a second power line signal and controls a second breaker based on said second power line signal, and wherein said second analog signal simulates said second power line signal.
- 11. The method of claim 1, further comprising measuring a time required for the said breaker to trip based on timestamps of said data.
 - 12. A method of testing an electrical switchgear system, comprising: applying a first analog signal to a first node in said electrical switchgear system, wherein said first node monitors a first power line signal and controls a first breaker based on said first power line signal, and wherein said first analog signal simulates said first power line signal;
 - applying, simultaneously with said applying said first analog signal, a second analog signal to a second node in said electrical switchgear system, wherein said second node monitors a second power line signal and controls a second breaker based on said second power line signal, and wherein said second analog signal simulates said second power line signal; and

receiving data from said first node representing a status of said first breaker, wherein said first analog signal has a magnitude of less than or equal to about 10% of a magnitude of said first power line signal.

- 13. A arrangement for testing an electrical switchgear system, comprising: a generator for applying an analog signal to a node in said electrical switchgear system, wherein said node monitors a power line signal and controls a breaker based on said power line signal, and wherein said analog signal simulates said power line signal; and an interface for receiving data representing a status of said breaker.
- 14. The arrangement of claim 13, wherein said interface receives said data from at least one of said node or said breaker.
- 15. The arrangement of claim 13, wherein said analog signal has a magnitude of less than about 10 volts peak-to-peak.
- 16. The arrangement of claim 13, wherein said analog signal has a magnitude of about 2.5 volts peak-to-peak.
- 17. The arrangement of claim 13, wherein said analog signal has a magnitude of less than or equal to about 10% of a magnitude of said power line signal.
- 18. The arrangement of claim 13, wherein said generator applies said analog signal while said node monitors said power line signal.
- 19. The arrangement of claim 13, wherein said analog signal simulates a fault condition of said power line signal.
- 20. The arrangement of claim 13, wherein said analog signal simulates a non-fault condition of said power line signal.
 - 21. The arrangement of claim 13, wherein said arrangement:

modifies said analog signal based on said status of said breaker; and receives additional data representing said status of said breaker.

- 22. The arrangement of claim 13,
- wherein said analog signal is a first analog signal, said node is a first node, said breaker is a first breaker, and said power line signal is a first power line signal,
- wherein said generator is also for applying, simultaneously with said applying said first analog signal, a second analog signal to a second node in said electrical switchgear system,
- wherein said second node monitors a second power line signal and controls a second breaker based on said second power line signal, and wherein said second analog signal simulates said second power line signal.
- 23. The arrangement of claim 13, further comprising a processor for measuring a time required for the said breaker to trip based on timestamps of said data.
 - 24. A arrangement for testing an electrical switchgear system, comprising: a generator for applying a first analog signal to a first node in said electrical switchgear system, wherein said first node monitors a first power line signal and controls a first breaker based on said first power line signal, and wherein said first analog signal simulates said first power line signal;
 - a generator for applying, simultaneously with said applying said first analog signal, a second analog signal to a second node in said electrical switchgear system, wherein said second node monitors a second power line signal and controls a second breaker based on said second power line signal, and wherein said second analog signal simulates said second power line signal; and

- an interface for receiving data from said first node representing a status of said first breaker,
- wherein said first analog signal has a magnitude of less than or equal to about 10% of a magnitude of said first power line signal.
- 25. A storage medium comprising instructions for controlling a processor for testing an electrical switchgear system to:
 - apply an analog signal to a node in said electrical switchgear system,
 wherein said node monitors a power line signal and controls a breaker
 based on said power line signal, and wherein said analog signal
 simulates said power line signal; and

receive data representing a status of said breaker.

- 26. A storage medium comprising instructions for controlling a processor for testing an electrical switchgear system to:
 - apply a first analog signal to a first node in said electrical switchgear system, wherein said first node monitors a first power line signal and controls a first breaker based on said first power line signal, and wherein said first analog signal simulates said first power line signal;
 - apply, simultaneously with said applying said first analog signal, a second analog signal to a second node in said electrical switchgear system, wherein said second node monitors a second power line signal and controls a second breaker based on said second power line signal, and wherein said second analog signal simulates said second power line signal; and

receive data from said first node representing a status of said first breaker, wherein said first analog signal has a magnitude of less than or equal to about 10% of a magnitude of said first power line signal.